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# Statistical systems with phantom scalar interaction in gravitation theory. I. Microscopic dynamics

Ignatyev Y., Ignatyev D.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

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## Abstract

© 2014, Pleiades Publishing, Ltd. Based on one the authors' approach to a macroscopic description of the scalar interaction, we develop a macroscopic model of a relativistic plasma with a phantom scalar interaction of elementary particles. In this model, as opposed to previous models, the restriction of nonnegativity of the particles' effective mass is removed.

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